

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2004/000555

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12Q 1/68, G01N 33/543  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12Q, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
.SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL, PAJ, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J. Am. Chem. Soc., Volume 123, 2001, Fernando Patolsky et al, "Electronic Transduction of DNA Sensing Processes on Surfaces: Amplification of DNA Detection and Analysis of Single-Base Mismatches by Tagged Liposomes", pages 5194-5205, Scheme 1B, abstract --	1-62
X	J. Am. Chem. Soc., Volume 122, 2000, Fernando Patolsky et al, "Amplified Microgravimetric Quartz-Crystal-Microbalance Assay of DNA Using Oligonucleotide-Functionalized Liposomes of Biotinylated Liposomes", pages 418-419, Scheme 1B --	1-62

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
22 June 2004

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28-06-2004

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000555

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Langmuir, Volume 18, 2002, Thomas Zacher et al, "Real-Time Two-Wavelength Surface Plamon Resonance as a Tool for the Vertical Resolution of Binding Processes in Biosensing Hydrogels", pages 1748-1759, Figure 7  --	1,3-11, 23-33,36-62
X	WO 02081739 A2 (FRAUN-HOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.), 17 October 2002 (17.10.2002), page 7, lines 21-27 and figure 4; page 33, lines 6-13; claims 1,4,21, 22 and 26  --	1-62
X	WO 02081738 A2 (FRAUN-HOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.), 17 October 2002 (17.10.2002), page 50, lines 1-14; page 7, lines 1-11 and figure 5  --	1-62
X	WO 02082078 A2 (FRAUN-HOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.), 17 October 2002 (17.10.2002), page 19, lines 9-19  -- -----	1-62

# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/SE2004/000555**

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **57**  
because they relate to subject matter not required to be searched by this Authority, namely:  
**see extra sheet**
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

International application No.  
**PCT/SE2004/000555**

**Box II.1**

Claim 57 relates to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practiced on the human or animal body (Rule 39.1(iv)). Nevertheless, a search has been executed for this claim. The search has been based on the alleged effects of the compounds or compositions

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

30/04/2004

International application No.

PCT/SE 2004/000555

WO	02081739	A2	17/10/2002	EP	1409728 A	21/04/2004
WO	02081738	A2	17/10/2002	EP	1385997 A	04/02/2004
WO	02082078	A2	17/10/2002	NONE		